

# Davide Maccariello

## List of Publications by Year in descending order

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29  
papers

1,838  
citations

361296

20  
h-index

526166

27  
g-index

30  
all docs

30  
docs citations

30  
times ranked

2747  
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-temperature stabilization of antiferromagnetic skyrmions in synthetic antiferromagnets. <i>Nature Materials</i> , 2020, 19, 34-42.	13.3	297
2	Electrical Signature of Noncollinear Magnetic Textures in Synthetic Antiferromagnets. <i>Physical Review Applied</i> , 2020, 14, .	1.5	4
3	Controlled Individual Skyrmion Nucleation at Artificial Defects Formed by Ion Irradiation. <i>Small</i> , 2020, 16, e1907450.	5.2	27
4	Electrical detection of single magnetic skyrmions in metallic multilayers at room temperature. <i>Nature Nanotechnology</i> , 2018, 13, 233-237.	15.6	204
5	Chirality in Magnetic Multilayers Probed by the Symmetry and the Amplitude of Dichroism in X-Ray Resonant Magnetic Scattering. <i>Physical Review Letters</i> , 2018, 120, 037202.	2.9	59
6	Modeling the Shape of Axisymmetric Skyrmions in Magnetic Multilayers. <i>Physical Review Applied</i> , 2018, 10, .	1.5	31
7	Dzyaloshinskii-Moriya interaction at disordered interfaces from <i>ab initio</i> theory: Robustness against intermixing and tunability through dusting. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	42
8	Hybrid chiral domain walls and skyrmions in magnetic multilayers. <i>Science Advances</i> , 2018, 4, eaat0415.	4.7	172
9	Engineering Large Anisotropic Magnetoresistance in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Films at Room Temperature. <i>Advanced Functional Materials</i> , 2017, 27, 1700664.	7.8	39
10	Room-Temperature Current-Induced Generation and Motion of sub-100 nm Skyrmions. <i>Nano Letters</i> , 2017, 17, 2703-2712.	4.5	291
11	Chiral asymmetry driven by unidirectional magnetic anisotropy in spin-orbitronic systems. , 2017, , .		0
12	Skyrmions in magnetic multilayers: chirality, electrical detection and current-induced motion. , 2017, , .		1
13	Chiral asymmetry driven by unidirectional magnetic anisotropy in Spin-Orbitronic systems. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
14	Observation of Localized Vibrational Modes of Graphene Nanodomes by Inelastic Atom Scattering. <i>Nano Letters</i> , 2016, 16, 2-7.	4.5	26
15	Interfacial exchange-coupling induced chiral symmetry breaking of spin-orbit effects. <i>Physical Review B</i> , 2015, 92, .	1.1	9
16	Low-energy excitations of graphene on $\text{Ru}(0001)$ . <i>Carbon</i> , 2015, 93, 1-10.	5.4	30
17	Direct experimental determination of the anisotropic magnetoresistive effects. <i>Applied Physics Letters</i> , 2014, 104, 202407.	1.5	12
18	Spatially Resolved, Site-Dependent Charge Transfer and Induced Magnetic Moment in TCNQ Adsorbed on Graphene. <i>Chemistry of Materials</i> , 2014, 26, 2883-2890.	3.2	42

#	ARTICLE	IF	CITATIONS
19	Vectorial Kerr magnetometer for simultaneous and quantitative measurements of the in-plane magnetization components. Review of Scientific Instruments, 2014, 85, 053904.	0.6	32
20	Persistent Photoconductivity in 2D Electron Gases at Different Oxide Interfaces. Advanced Optical Materials, 2013, 1, 834-843.	3.6	48
21	Helium, neon and argon diffraction from Ru(0001). Journal of Physics Condensed Matter, 2012, 24, 354002.	0.7	16
22	Magnetization reversal signatures in the magnetoresistance of magnetic multilayers. Physical Review B, 2012, 86, .	1.1	15
23	Nanostructure of buried interface layers in TiO <sub>2</sub> anatase thin films grown on LaAlO <sub>3</sub> and SrTiO <sub>3</sub> substrates. Nanoscale, 2012, 4, 91-94.	2.8	22
24	Electron Transfer and Ionic Displacements at the Origin of the 2D Electron Gas at the LAO/STO Interface: Direct Measurements with Atomic Column Spatial Resolution. Advanced Materials, 2012, 24, 3952-3957.	11.1	132
25	spatial distribution of polarization at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface [Phys. Rev. B 83, 155405 (2011)]. Physical Review B, 2011, 83, .	1.1	40
26	Publisher's Note: Spectral and spatial distribution of polarization at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface [Phys. Rev. B 83, 155405 (2011)]. Physical Review B, 2011, 83, .	1.1	3
27	Optimization of La <sub>0.7</sub> Ba <sub>0.3</sub> MnO <sub>3</sub> complex oxide laser ablation conditions by plume imaging and optical emission spectroscopy. Journal of Applied Physics, 2010, 108, 043302.	1.1	38
28	Pulsed laser deposition of SrTiO <sub>3</sub> /LaGaO <sub>3</sub> and SrTiO <sub>3</sub> /LaAlO <sub>3</sub> : Plasma plume effects. Applied Physics Letters, 2010, 97, 252105.	1.5	71
29	Conducting interfaces between band insulating oxides: The LaGaO <sub>3</sub> /SrTiO <sub>3</sub> heterostructure. Applied Physics Letters, 2010, 97, .	1.5	133